Co.1475

PES Environmental, Inc.
Engineering & Environmental Services

MEMORANDUM

To: [redacted]ee
[redacted]in Group

From: Robert Creps, P.E.
PES Environmental, Inc.

Date: October 26, 2000

Subject: Summary Report
Limited Subsurface Environmental Investigation
1300 Powell Street, Emeryville, California

PES File: 241.042.01.001

On September 7, 2000, The Martin Group retained PES Environmental, Inc. (PES) to assess subsurface environmental conditions at 1300 Powell Street, in Emeryville, California. PES understands The Martin Group, or an affiliated organization, is considering acquisition of the property and is evaluating potential redevelopment alternatives.

To that end, PES reviewed prior environmental investigation reports and other related documents regarding the property that were supplied to us by The Martin Group. In addition, PES conducted a limited subsurface investigation on September 14, 2000, consisting of sampling soil and groundwater at six locations, analyzing selected samples for various chemical constituents, evaluating the results and preparing this summary report. At your request and for project cost considerations, reporting has been kept to a minimum. The purposes of the investigation were: (1) confirm prior conclusions by others that the shallow site soil contains moderate concentrations of high molecular weight petroleum hydrocarbons (e.g., oil and/or greases), (2) evaluate groundwater for the presence of contamination, and (3) confirm the absence of other chemicals of concern in soil and groundwater. Details regarding the investigation are provided below.

BACKGROUND INFORMATION

Information contained in previous reports prepared by others indicates that a Pennzoil Oil Company bulk storage and distribution facility existed at the site from approximately 1922 to 1953. Reportedly, above ground storage tanks and drums are observable in historic aerial photographs. Between 1953 and 1978, ownership of the property was transferred several times; there apparently is only limited information regarding activities taking place at the property during that period. The current owner acquired title to the property in about 1978. At that time, there apparently was "no surface covering." A geotechnical investigation was performed in 1978 for a proposed building that was subsequently constructed, and currently exists at the property. PES understands the property has since been used as a construction equipment rental yard, maintenance facility and office until approximately September 2000, when those operations ceased.

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Initial environmental investigations apparently commenced in 1995[1]. A subsequent investigation was performed in 1997[2]. These studies included an historical aerial photograph review, drilling and sampling of soil with limited groundwater sampling, and analysis of the samples for mostly petroleum hydrocarbon constituents. A review of the results of the investigations indicates that various, mostly long-chained (i.e., high molecular weight) petroleum hydrocarbons, classified as diesel oil, motor oil, and oil and grease were detected in soil and groundwater. On November 29, 1999, Alameda County Health Care Services Agency issued a "Case Closure" letter for the site, stating: "No further action related to the petroleum hydrocarbon release is required." The County advised the owner that petroleum hydrocarbons still exist at the site and that if land use changed to "residential or day-care" then a risk assessment would be necessary.

SUMMARY OF RECENT SITE INVESTIGATION

The recent PES subsurface investigation was performed to confirm the results of previous investigations and assess whether other chemicals exist in the subsurface that could adversely affect redevelopment or be of environmental or human health concern. PES sampled soil and groundwater at six locations at the property on September 14, 2000.

Prior to the start of field operations, a Health and Safety Plan was prepared in accordance with applicable Occupational Safety and Health Administration requirements. Additionally, the property was marked for utilities to clear the proposed drilling locations. A drilling permit was obtained from Alameda County Public Works Agency.

Precision Sampling, Inc. of Richmond, California, performed the drilling using a Geoprobe sampling drill rig. Precision is a State-licensed well driller. A California Registered Geologist from PES was present to observe and document the field activities.

Sample locations were selected on the basis of the results of previous investigations by others and available historical site use information. Attached is a map showing the PES and prior sample locations. Two soil samples from each location were selected for chemical analysis. A shallow soil sample from fill material or near-surface soil was selected to ascertain near-surface conditions as well as a deeper soil sample from native material. The soil samples were analyzed for Total Petroleum Hydrocarbons quantified as diesel oil and gasoline (TPHd and TPHg) by EPA Method 8015-modified, volatile organics by EPA Test Method 8260 including the fuel oxygenate additive methyl *tert*-butyl ether (MTBE), and the metals cadmium, chromium, lead nickel and zinc. In addition, the near surface soil samples were analyzed for semi-volatile organics by EPA Test Method 8270.

"Grab" groundwater samples were collected from each sampling location by inserting 1-inch diameter PVC casing into each borehole at the completion of drilling, and collecting a sample with either a

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[1] Lush Geosciences. *Baseline Survey Report, Construction Services Site, 1300 Powell Street, Emeryville, California.* April 13, 1995.

[2] Cambria Environmental Technology, Inc. *Subsurface Investigation, Richard and Julia Becker, 1300 Powell Street, Emeryville, California. Cambria Project #950-423.* July 25, 1997.

stainless steel bailer or a disposal PVC bailer. Groundwater samples were analyzed for TPHd and TPHg by EPA Method 8015-modified, and volatile organics (including MTBE) by EPA Test Method 8260.

Soil and groundwater samples were collected, stored, and transported to the analytical laboratory in accordance with standard environmental protocols. McCambell Analytical, Inc., located in Pacheco, California, performed the chemical analysis. McCambell is a California-certified laboratory for the analysis performed. Copies of the laboratory data reports are attached to this memorandum.

At the completion of fieldwork, the borings were backfilled with neat cement to the surface.

DISCUSSION

A review of the analytical results indicates that only relatively low concentrations of petroleum hydrocarbon constituents were detected in the near-surface soil samples. Petroleum hydrocarbons were generally not detected in soil samples collected at greater depths. No volatile organics, other than those associated were petroleum hydrocarbons, were detected in the analyzed soil samples. Semi-volatile organics were also not detected in the analyzed soil samples. Concentrations of metals were within ranges that are considered background or normal with the exception of two shallow soil samples, which had slightly elevated concentrations of lead and zinc. These levels do not exceed what might be expected in an urbanized commercial/industrial setting such as Emeryville.

Groundwater sample analyses did not detect volatile organics, including MTBE. TPHg was also not detected in groundwater samples. TPHd was detected at low levels in two groundwater samples on the western half of the property. The detected petroleum concentrations in groundwater are significantly lower than those previously detected at the site during prior investigations.

SUMMARY

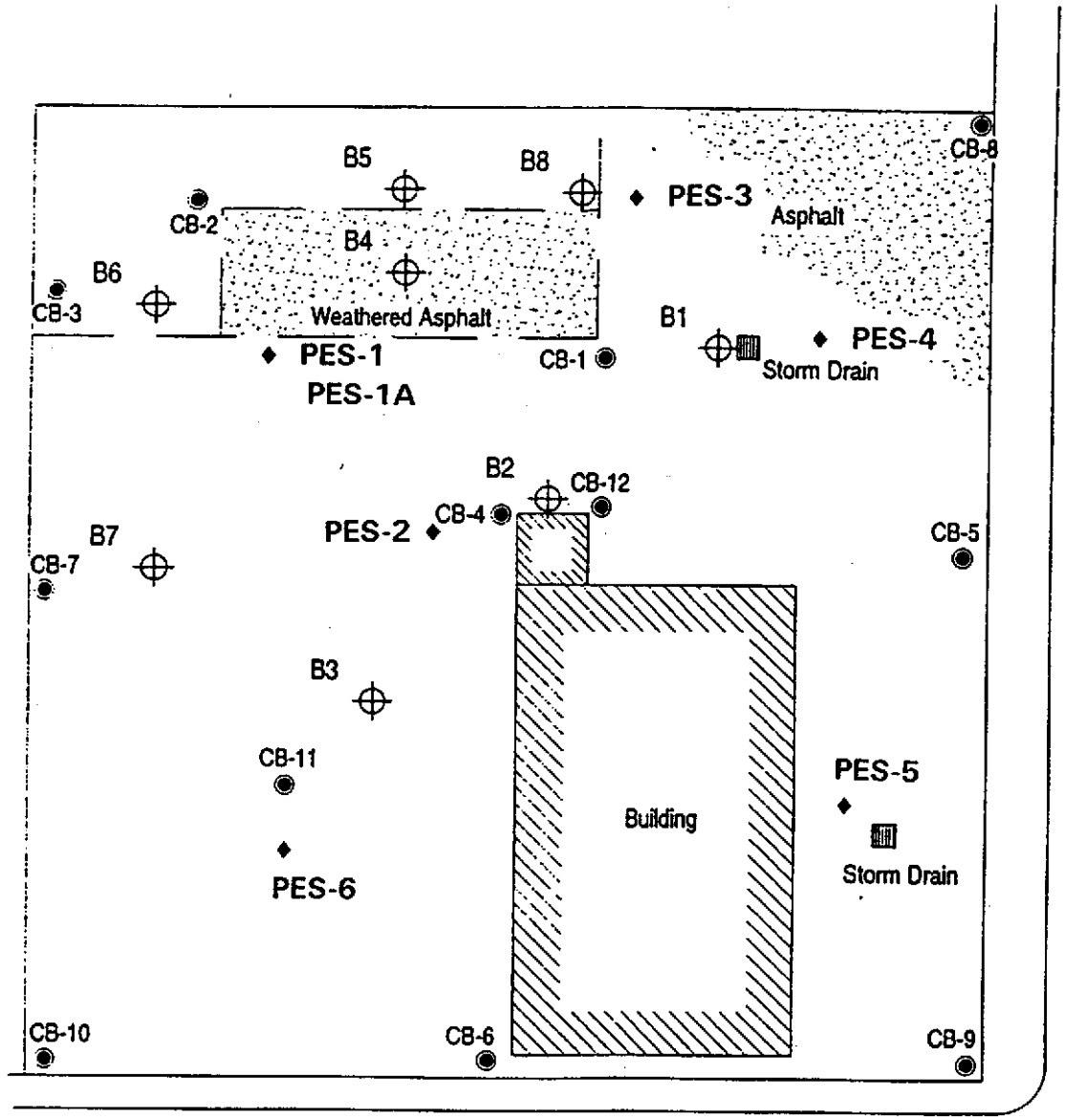
Results of the recent investigation support previous investigation conclusions that relatively low levels of petroleum hydrocarbons exist at the site. These petroleum hydrocarbon constituents can be characterized as being generally high molecular weight, longed-chained oils, and may be related to historic uses of the property as an oil distribution facility and/or an equipment rental/storage facility. The investigation results also suggest petroleum hydrocarbons in soil do not extend below depths of approximately 3 to 4 feet. No other organic constituents, other than petroleum hydrocarbons, were detected in soil or groundwater. Metals were detected in soil at expected levels, with the exception of slightly elevated lead and zinc detections in two near-surface soil samples. Groundwater sample analyses showed no detected chemicals, with the exception of low levels of TPHd in two samples on the western portion of the site. The data suggest a reduction of petroleum hydrocarbon concentrations in groundwater since 1997.

In conclusion, the current investigation confirms previous findings, and documents the absence of significant soil and groundwater contamination that would preclude redevelopment of this site. PES recommends that you consult with us or another qualified environmental professional regarding specific recommendations (e.g., monitoring of rough grading, construction worker health and safety procedures,

waste soil management, dewatering groundwater management, etc.) after definitive redevelopment plans are known.

Please feel free to call me at (415) 899-1600 if you have any questions.

Attachments: Figure 1 – Site Plan and Sampling Locations
Analytical Laboratory Reports



EXPLANATION

- ◆ Soil Boring Location
  PES Environmental – Sept. 14, 2000
- ◉ Soil Boring Location
  Cambria Environmental – April 24, 1997
- ⊕ Soil Boring Location
  Lush Geosciences – April 3, 1995

N

0 20 40

Scale (ft)

PES Environmental, Inc.
Engineering & Environmental Services

Site Plan and Sampling Locations
Limited Subsurface Environmental Investigation
1300 Powell Street
Emeryville, California

FIGURE
1

McCAMPBELL ANALYTICAL INC.
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http://www.mccampbell.com E-mail: main@mccampbell.com

PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/15/2000

09/22/2000

Dear Mike:

Enclosed are:

1). the results of **18** samples from your **#241.042.01.0001; 1300 Powell** project,

2). a QC report for the above samples

3). a copy of the chain of custody, and

4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

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Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
47641	PES-1-W	W	ND,i	---	---	---	---	---	100
47642	PES-2-W	W	ND	---	---	---	---	---	102
47643	PES-3-W	W	ND	---	---	---	---	---	102
47644	PES-4-W	W	ND	---	---	---	---	---	102
47645	PES-5-W	W	ND	---	---	---	---	---	103
47646	PES-6-W	W	ND,i	---	---	---	---	---	102
47647	PES-1	S	ND	---	---	---	---	---	104
47649	PES-1A	S	1.4,g	---	---	---	---	---	102
47651	PES-2 3-4	S	56,g	---	---	---	---	---	93
47652	PES-2 5 1/2 -7	S	ND	---	---	---	---	---	101
47653	PES-3 3-4	S	1.3,g	---	---	---	---	---	104
47655	PES-3 5 1/2 -7	S	ND	---	---	---	---	---	105
47656	PES-4 3-4	S	ND	---	---	---	---	---	97
47658	PES-4 5 1/2 -7	S	ND	---	---	---	---	---	112
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*, with Methyl tert-Butyl Ether* & BTEX*

EPA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method GCFID(5030)

Lab ID	Client ID	Matrix	TPH(g)+	MTBE	Benzene	Toluene	Ethylben-zene	Xylenes	% Recovery Surrogate
47659	PES-5 3-4	S	ND	---	---	---	---	---	102
47660	PES-5 6-7	S	ND	---	---	---	---	---	106
47661	PES-6 2-3	S	ND	---	---	---	---	---	103
47663	PES-6 6-7	S	ND	---	---	---	---	---	199
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	5.0	0.5	0.5	0.5	0.5	
		S	1.0 mg/kg	0.05	0.005	0.005	0.005	0.005	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP and SPLP extracts in ug/L

cluttered chromatogram; sample peak coelutes with surrogate peak

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (?); f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment; j) no recognizable pattern.

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	Client P.O:	Date Analyzed: 09/15-09/21/2000

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
47641	PES-1-W	W	88,g,i	89
47642	PES-2-W	W	ND	96
47643	PES-3-W	W	ND	106
47644	PES-4-W	W	ND	95
47646	PES-6-W	W	140,g,i	93
47647	PES-1	S	77,c/e	114
47649	PES-1A	S	60,g	115
47651	PES-2 3-4	S	260,b,d	117
47652	PES-2 5 1/2 -7	S	ND	105
47653	PES-3 3-4	S	91,g	99
47655	PES-3 5 1/2 -7	S	ND	103
47656	PES-4 3-4	S	2.5,g	103
47658	PES-4 5 1/2 -7	S	ND	100
47659	PES-5 3-4	S	16,g	102
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (fuel oil?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel *

EPA methods modified 8015, and 3550 or 3510; California RWQCB (SF Bay Region) method GCFID(3550) or GCFID(3510)

Lab ID	Client ID	Matrix	TPH(d)+	% Recovery Surrogate
47660	PES-5 6-7	S	ND	103
47661	PES-6 2-3	S	70,g	108
47663	PES-6 6-7	S	ND	92
47645	PES-5-W	W	88,b	101
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		W	50 ug/L	
		S	1.0 mg/kg	

* water and vapor samples are reported in ug/L, wipe samples in ug/wipe, soil and sludge samples in mg/kg, and all TCLP / STLC / SPLP extracts in ug/L

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) medium boiling point pattern that does not match diesel (?); f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen is present; i) liquid sample that contains greater than ~5 vol. % sediment.

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Volatile Organics By GC/MS

EPA method 8260

Lab ID	47641
Client ID	PES-1-W
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments: i**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	90		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	122		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	109		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

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Volatile Organics By GC/MS

EPA method 8260

Lab ID	47642
Client ID	PES-2-W
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	85		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	105		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	117		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47643
Client ID	PES-3-W
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	102		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	100		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	93		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47644
Client ID	PES-4-W
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	103		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	99		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	94		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47645
Client ID	PES-5-W
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	102		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	103		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	94		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47646
Client ID	PES-6-W
Matrix	W

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments: i**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	102		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	100		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	93		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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http://www.mccampbell.com E-mail: main@mccampbell.com

PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47647
Client ID	PES-1 5-7
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	104		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	109		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	103		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

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		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47649
Client ID	PES-1A 2-3
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	108		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	102		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	129		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47651
Client ID	PES-2 3-4
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	5.6	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	14	1.0	5.0	Methylene Chloride [e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	78	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	91	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	46	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	107		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	93		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	104		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47652
Client ID	PES-2 5 1/2 -7
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	84		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	93		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	103		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

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	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47653
Client ID	PES-3 3-4
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	6.8	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	75		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	117		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	106		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47655
Client ID	PES-3 5 1/2 -7
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	86		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	98		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	109		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

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		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47656
Client ID	PES-4 3-4
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	72		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	105		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	111		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47658
Client ID	PES-4 5 1/2 -7
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	83		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	91		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	95		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47659
Client ID	PES-5 3-4
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	70		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	1118		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	110		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47660
Client ID	PES-5 6-7
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	84		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	95		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	99		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

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	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47661
Client ID	PES-6 2-3
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride[e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether[c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	70		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	121		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	116		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/16-09/24/2000

Volatile Organics By GC/MS

EPA method 8260

Lab ID	47663
Client ID	PES-6 6-7
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	Concentration*	Reporting Limit W	Reporting Limit S
Acetone [b]	ND<95	5.0	25	trans-1,3-Dichloropropene	ND	1.0	5.0
Benzene	ND	1.0	5.0	Ethylene dibromide	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Bromochloromethane	ND	1.0	5.0	Hexachlorobutadiene	ND	5.0	25
Bromodichloromethane	ND	1.0	5.0	Iodomethane	ND	1.0	5.0
Bromoform	ND	1.0	5.0	Isopropylbenzene	ND	1.0	5.0
Bromomethane	ND	1.0	5.0	p-Isopropyl toluene	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	Methyl butyl ketone [d]	ND	1.0	5.0
sec-Butyl benzene	ND	1.0	5.0	Methylene Chloride [e]	ND<25	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Methyl ethyl ketone [f]	ND	2.0	10
Carbon Disulfide	ND	1.0	5.0	Methyl isobutyl ketone [g]	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Methyl tert-Butyl Ether (MTBE)	ND	1.0	5.0
Chlorobenzene	ND	1.0	5.0	Naphthalene	ND	5.0	5.0
Chloroethane	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
2-Chloroethyl Vinyl Ether [c]	ND	1.0	5.0	Styrene [k]	ND	1.0	5.0
Chloroform	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
Chloromethane	ND	1.0	5.0	1,1,2,2-Tetrachloroethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	Tetrachloroethene	ND<10	1.0	5.0
4-Chlorotoluene	ND	1.0	5.0	Toluene [l]	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	5.0	25
1,2-Dibromo-3-chloropropane	ND	2.0	10	1,2,4-Trichlorobenzene	ND	5.0	25
Dibromomethane	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,2-Dichlorobenzene	ND	1.0	5.0	1,1,2-Trichloroethane	ND	1.0	5.0
1,3-Dichlorobenzene	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
1,4-Dichlorobenzene	ND	1.0	5.0	Trichlorofluoromethane	ND	1.0	5.0
Dichlorodifluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,1-Dichloroethane	ND	1.0	5.0	1,2,4-Trimethylbenzene	ND	1.0	5.0
1,2-Dichloroethane	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	Vinyl Acetate [m]	ND	5.0	25
cis-1,2-Dichloroethene	ND	1.0	5.0	Vinyl Chloride [n]	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	Xylenes, total [o]	ND	1.0	5.0
1,2-Dichloropropane	ND	1.0	5.0	**Comments:**			
1,3-Dichloropropane	ND	1.0	5.0	**Surrogate Recoveries (%)**			
2,2-Dichloropropane	ND	1.0	5.0	Dibromofluoromethane	76		
1,1-Dichloropropene	ND	1.0	5.0	Toluene-d8	106		
cis-1,3-Dichloropropene	ND	1.0	5.0	4-Bromofluorobenzene	116		

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) ethenylbenzene; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/22/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47649
Client ID	PES-1A 2-3
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND<0.8	10	0.33	Di-n-octyl Phthalate	ND<0.8	10	0.33
Acenaphthylene	ND<0.8	10	0.33	1,2-Diphenylhydrazine	ND<0.8	10	0.33
Anthracene	ND<0.8	10	0.33	Fluoranthene	ND<0.8	10	0.33
Benzidine	ND<4	50	1.6	Fluorene	ND<0.8	10	0.33
Benzoic Acid	ND<4	50	1.6	Hexachlorobenzene	ND<0.8	10	0.33
Benzo(a)anthracene	ND<0.8	10	0.33	Hexachlorobutadiene	ND<0.8	10	0.33
Benzo(b)fluoranthene	ND<0.8	10	0.33	Hexachlorocyclopentadiene	ND<4	50	1.6
Benzo(k)fluoranthene	ND<0.8	10	0.33	Hexachloroethane	ND<0.8	10	0.33
Benzo(g,h,i)perylene	ND<0.8	10	0.33	Indeno(1,2,3-cd)pyrene	ND<0.8	10	0.33
Benzo(a)pyrene	ND<0.8	10	0.33	Isophorone	ND<0.8	10	0.33
Benzyl Alcohol	ND<1.6	20	0.66	2-Methylnaphthalene	ND<0.8	10	0.33
Bis(2-chloroethoxy)methane	ND<0.8	10	0.33	2-Methylphenol (o-Cresol)	ND<0.8	10	0.33
Bis(2-chloroethyl) Ether	ND<0.8	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<0.8	10	0.33
Bis(2-chloroisopropyl)Ether	ND<0.8	10	0.33	Naphthalene	ND<0.8	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<0.8	10	0.33	2-Nitroaniline	ND<4	50	1.6
4-Bromophenyl Phenyl Ether	ND<0.8	10	0.33	3-Nitroaniline	ND<4	50	1.6
Butylbenzyl Phthalate	ND<0.8	10	0.33	4-Nitroaniline	ND<4	50	1.6
4-Chloroanaline	ND<1.6	20	0.66	2-Nitrophenol	ND<4	50	1.6
4-Chloro-3-methylpheno[1]	ND<0.8	10	0.33	4-Nitrophenol	ND<4	50	1.6
2-Chloronaphthalene	ND<0.8	10	0.33	Nitrobenzene	ND<0.8	10	0.33
2-Chlorophenol	ND<0.8	10	0.33	N-Nitrosodimethylamine	ND<0.8	10	0.33
4-Chlorophenyl Phenyl Ether	ND<0.8	10	0.33	N-Nitrosodiphenylamine	ND<0.8	10	0.33
Chrysene	ND<0.8	10	0.33	N-Nitrosodi-n-propylamine	ND<0.8	10	0.33
Dibenzo(a,h)anthracene	ND<0.8	10	0.33	Pentachlorophenol	ND<4	50	1.6
Dibenzofuran	ND<0.8	10	0.33	Phenanthrene	ND<0.8	10	0.33
Di-n-butyl Phthalate	ND<0.8	10	0.33	Phenol	ND<0.8	10	0.33
1,2-Dichlorobenzene	ND<0.8	10	0.33	Pyrene	ND<0.8	10	0.33
1,3-Dichlorobenzene	ND<0.8	10	0.33	1,2,4-Trichlorobenzene	ND<0.8	10	0.33
1,4-Dichlorobenzene	ND<0.8	10	0.33	2,4,5-Trichlorophenol	ND<0.8	10	0.33
3,3-Dichlorobenzidine	ND<1.6	20	0.66	2,4,6-Trichlorophenol	ND<0.8	10	0.33
2,4-Dichlorophenol	ND<0.8	10	0.33	Comments: j			
Diethyl Phthalate	ND<0.8	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND<0.8	10	0.33	2-Fluorophenol	91		
Dimethyl Phthalate	ND<0.8	10	0.33	Phenol-d5	104		
4,6-Dinitro-2-methylphenol	ND<4	50	1.6	Nitrobenzene-d5	106		
2,4-Dinitrophenol	ND<4	50	1.6	2-Fluorobiphenyl	106		
2,4-Dinitrotoluene	ND<0.8	10	0.33	2,4,6-Tribromophenol	95		
2,6-Dinitrotoluene	ND<0.8	10	0.33	p-Terphenyl-d14	107		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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1682 Novato Blvd., Ste. 100		Date Received: 09/15/2000
Novato, CA 94947	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/22/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47651
Client ID	PES-2 3-4
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND<4	10	0.33	Di-n-octyl Phthalate	ND<4	10	0.33
Acenaphthylene	ND<4	10	0.33	1,2-Diphenylhydrazine	ND<4	10	0.33
Anthracene	ND<4	10	0.33	Fluoranthene	ND<4	10	0.33
Benzidine	ND<20	50	1.6	Fluorene	ND<4	10	0.33
Benzoic Acid	ND<20	50	1.6	Hexachlorobenzene	ND<4	10	0.33
Benzo(a)anthracene	ND<4	10	0.33	Hexachlorobutadiene	ND<4	10	0.33
Benzo(b)fluoranthene	ND<4	10	0.33	Hexachlorocyclopentadiene	ND<20	50	1.6
Benzo(k)fluoranthene	ND<4	10	0.33	Hexachloroethane	ND<4	10	0.33
Benzo(g,h,i)perylene	ND<4	10	0.33	Indeno(1,2,3-cd)pyrene	ND<4	10	0.33
Benzo(a)pyrene	ND<4	10	0.33	Isophorone	ND<4	10	0.33
Benzyl Alcohol	ND<8	20	0.66	2-Methylnaphthalene	ND<4	10	0.33
Bis(2-chloroethoxy)methane	ND<4	10	0.33	2-Methylphenol (o-Cresol)	ND<4	10	0.33
Bis(2-chloroethyl) Ether	ND<4	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<4	10	0.33
Bis(2-chloroisopropyl)Ether	ND<4	10	0.33	Naphthalene	ND<4	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<4	10	0.33	2-Nitroaniline	ND<20	50	1.6
4-Bromophenyl Phenyl Ether	ND<4	10	0.33	3-Nitroaniline	ND<20	50	1.6
Butylbenzyl Phthalate	ND<4	10	0.33	4-Nitroaniline	ND<20	50	1.6
4-Chloroanaline	ND<8	20	0.66	2-Nitrophenol	ND<20	50	1.6
4-Chloro-3-methylpheno[	ND<4	10	0.33	4-Nitrophenol	ND<20	50	1.6
2-Chloronaphthalene	ND<4	10	0.33	Nitrobenzene	ND<4	10	0.33
2-Chlorophenol	ND<4	10	0.33	N-Nitrosodimethylamine	ND<4	10	0.33
4-Chlorophenyl Phenyl Ether	ND<4	10	0.33	N-Nitrosodiphenylamine	ND<4	10	0.33
Chrysene	ND<4	10	0.33	N-Nitrosodi-n-propylamine	ND<4	10	0.33
Dibenzo(a,h)anthracene	ND<4	10	0.33	Pentachlorophenol	ND<20	50	1.6
Dibenzofuran	ND<4	10	0.33	Phenanthrene	ND<4	10	0.33
Di-n-butyl Phthalate	ND<4	10	0.33	Phenol	ND<4	10	0.33
1,2-Dichlorobenzene	ND<4	10	0.33	Pyrene	ND<4	10	0.33
1,3-Dichlorobenzene	ND<4	10	0.33	1,2,4-Trichlorobenzene	ND<4	10	0.33
1,4-Dichlorobenzene	ND<4	10	0.33	2,4,5-Trichlorophenol	ND<4	10	0.33
3,3-Dichlorobenzidine	ND<8	20	0.66	2,4,6-Trichlorophenol	ND<4	10	0.33
2,4-Dichlorophenol	ND<4	10	0.33	Comments: j			
Diethyl Phthalate	ND<4	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND<4	10	0.33	2-Fluorophenol	---#		
Dimethyl Phthalate	ND<4	10	0.33	Phenol-d5	---#		
4,6-Dinitro-2-methylphenol	ND<20	50	1.6	Nitrobenzene-d5	---#		
2,4-Dinitrophenol	ND<20	50	1.6	2-Fluorobiphenyl	117		
2,4-Dinitrotoluene	ND<4	10	0.33	2,4,6-Tribromophenol	---#		
2,6-Dinitrotoluene	ND<4	10	0.33	p-Terphenyl-d14	107		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/22/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47653
Client ID	PES-3 3-4
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND<2	10	0.33	Di-n-octyl Phthalate	ND<2	10	0.33
Acenaphthylene	ND<2	10	0.33	1,2-Diphenylhydrazine	ND<2	10	0.33
Anthracene	ND<2	10	0.33	Fluoranthene	ND<2	10	0.33
Benzidine	ND<10	50	1.6	Fluorene	ND<2	10	0.33
Benzoic Acid	ND<10	50	1.6	Hexachlorobenzene	ND<2	10	0.33
Benzo(a)anthracene	ND<2	10	0.33	Hexachlorobutadiene	ND<2	10	0.33
Benzo(b)fluoranthene	ND<2	10	0.33	Hexachlorocyclopentadiene	ND<10	50	1.6
Benzo(k)fluoranthene	ND<2	10	0.33	Hexachloroethane	ND<2	10	0.33
Benzo(g,h,i)perylene	ND<2	10	0.33	Indeno(1,2,3-cd)pyrene	ND<2	10	0.33
Benzo(a)pyrene	ND<2	10	0.33	Isophorone	ND<2	10	0.33
Benzyl Alcohol	ND<4	20	0.66	2-Methylnaphthalene	ND<2	10	0.33
Bis(2-chloroethoxy)methane	ND<2	10	0.33	2-Methylphenol (o-Cresol)	ND<2	10	0.33
Bis(2-chloroethyl) Ether	ND<2	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<2	10	0.33
Bis(2-chloroisopropyl)Ether	ND<2	10	0.33	Naphthalene	ND<2	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<2	10	0.33	2-Nitroaniline	ND<10	50	1.6
4-Bromophenyl Phenyl Ether	ND<2	10	0.33	3-Nitroaniline	ND<10	50	1.6
Butylbenzyl Phthalate	ND<2	10	0.33	4-Nitroaniline	ND<10	50	1.6
4-Chloroanaline	ND<4	20	0.66	2-Nitrophenol	ND<10	50	1.6
4-Chloro-3-methylpheno[	ND<2	10	0.33	4-Nitrophenol	ND<10	50	1.6
2-Chloronaphthalene	ND<2	10	0.33	Nitrobenzene	ND<2	10	0.33
2-Chlorophenol	ND<2	10	0.33	N-Nitrosodimethylamine	ND<2	10	0.33
4-Chlorophenyl Phenyl Ether	ND<2	10	0.33	N-Nitrosodiphenylamine	ND<2	10	0.33
Chrysene	ND<2	10	0.33	N-Nitrosodi-n-propylamine	ND<2	10	0.33
Dibenzo(a,h)anthracene	ND<2	10	0.33	Pentachlorophenol	ND<10	50	1.6
Dibenzofuran	ND<2	10	0.33	Phenanthrene	ND<2	10	0.33
Di-n-butyl Phthalate	ND<2	10	0.33	Phenol	ND<2	10	0.33
1,2-Dichlorobenzene	ND<2	10	0.33	Pyrene	ND<2	10	0.33
1,3-Dichlorobenzene	ND<2	10	0.33	1,2,4-Trichlorobenzene	ND<2	10	0.33
1,4-Dichlorobenzene	ND<2	10	0.33	2,4,5-Trichlorophenol	ND<2	10	0.33
3,3-Dichlorobenzidine	ND<4	20	0.66	2,4,6-Trichlorophenol	ND<2	10	0.33
2,4-Dichlorophenol	ND<2	10	0.33	Comments: j			
Diethyl Phthalate	ND<2	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND<2	10	0.33	2-Fluorophenol	---#		
Dimethyl Phthalate	ND<2	10	0.33	Phenol-d5	---#		
4,6-Dinitro-2-methylphenol	ND<10	50	1.6	Nitrobenzene-d5	115		
2,4-Dinitrophenol	ND<10	50	1.6	2-Fluorobiphenyl	113		
2,4-Dinitrotoluene	ND<2	10	0.33	2,4,6-Tribromophenol	---#		
2,6-Dinitrotoluene	ND<2	10	0.33	p-Terphenyl-d14	99		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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PES Environmental, Inc.	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
1682 Novato Blvd., Ste. 100		Date Received: 09/15/2000
Novato, CA 94947	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/22/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47656
Client ID	PES-4 3-489
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND	10	0.33	Di-n-octyl Phthalate	ND	10	0.33
Acenaphthylene	ND	10	0.33	1,2-Diphenylhydrazine	ND	10	0.33
Anthracene	ND	10	0.33	Fluoranthene	ND	10	0.33
Benzidine	ND	50	1.6	Fluorene	ND	10	0.33
Benzoic Acid	ND	50	1.6	Hexachlorobenzene	ND	10	0.33
Benzo(a)anthracene	ND	10	0.33	Hexachlorobutadiene	ND	10	0.33
Benzo(b)fluoranthene	ND	10	0.33	Hexachlorocyclopentadiene	ND	50	1.6
Benzo(k)fluoranthene	ND	10	0.33	Hexachloroethane	ND	10	0.33
Benzo(g,h,i)perylene	ND	10	0.33	Indeno(1,2,3-cd)pyrene	ND	10	0.33
Benzo(a)pyrene	ND	10	0.33	Isophorone	ND	10	0.33
Benzyl Alcohol	ND	20	0.66	2-Methylnaphthalene	ND	10	0.33
Bis(2-chloroethoxy)methane	ND	10	0.33	2-Methylphenol (o-Cresol)	ND	10	0.33
Bis(2-chloroethyl) Ether	ND	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND	10	0.33
Bis(2-chloroisopropyl)Ether	ND	10	0.33	Naphthalene	ND	10	0.33
Bis(2-ethylhexyl) Phthalate	ND	10	0.33	2-Nitroaniline	ND	50	1.6
4-Bromophenyl Phenyl Ether	ND	10	0.33	3-Nitroaniline	ND	50	1.6
Butylbenzyl Phthalate	ND	10	0.33	4-Nitroaniline	ND	50	1.6
4-Chloroanaline	ND	20	0.66	2-Nitrophenol	ND	50	1.6
4-Chloro-3-methylpheno'	ND	10	0.33	4-Nitrophenol	ND	50	1.6
2-Chloronaphthalene	ND	10	0.33	Nitrobenzene	ND	10	0.33
2-Chlorophenol	ND	10	0.33	N-Nitrosodimethylamine	ND	10	0.33
4-Chlorophenyl Phenyl Ether	ND	10	0.33	N-Nitrosodiphenylamine	ND	10	0.33
Chrysene	ND	10	0.33	N-Nitrosodi-n-propylamine	ND	10	0.33
Dibenzo(a,h)anthracene	ND	10	0.33	Pentachlorophenol	ND	50	1.6
Dibenzofuran	ND	10	0.33	Phenanthrene	ND	10	0.33
Di-n-butyl Phthalate	ND	10	0.33	Phenol	ND	10	0.33
1,2-Dichlorobenzene	ND	10	0.33	Pyrene	ND	10	0.33
1,3-Dichlorobenzene	ND	10	0.33	1,2,4-Trichlorobenzene	ND	10	0.33
1,4-Dichlorobenzene	ND	10	0.33	2,4,5-Trichlorophenol	ND	10	0.33
3,3-Dichlorobenzidine	ND	20	0.66	2,4,6-Trichlorophenol	ND	10	0.33
2,4-Dichlorophenol	ND	10	0.33	Comments:			
Diethyl Phthalate	ND	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND	10	0.33	2-Fluorophenol	89		
Dimethyl Phthalate	ND	10	0.33	Phenol-d5	102		
4,6-Dinitro-2-methylphenol	ND	50	1.6	Nitrobenzene-d5	103		
2,4-Dinitrophenol	ND	50	1.6	2-Fluorobiphenyl	95		
2,4-Dinitrotoluene	ND	10	0.33	2,4,6-Tribromophenol	83		
2,6-Dinitrotoluene	ND	10	0.33	p-Terphenyl-d14	98		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/22/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47659
Client ID	PES-5 3-4
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND<1	10	0.33	Di-n-octyl Phthalate	ND<1	10	0.33
Acenaphthylene	ND<1	10	0.33	1,2-Diphenylhydrazine	ND<1	10	0.33
Anthracene	ND<1	10	0.33	Fluoranthene	ND<1	10	0.33
Benzidine	ND<5	50	1.6	Fluorene	ND<1	10	0.33
Benzoic Acid	ND<5	50	1.6	Hexachlorobenzene	ND<1	10	0.33
Benzo(a)anthracene	ND<1	10	0.33	Hexachlorobutadiene	ND<1	10	0.33
Benzo(b)fluoranthene	ND<1	10	0.33	Hexachlorocyclopentadiene	ND<5	50	1.6
Benzo(k)fluoranthene	ND<1	10	0.33	Hexachloroethane	ND<1	10	0.33
Benzo(g,h,i)perylene	ND<1	10	0.33	Indeno(1,2,3-cd)pyrene	ND<1	10	0.33
Benzo(a)pyrene	ND<1	10	0.33	Isophorone	ND<1	10	0.33
Benzyl Alcohol	ND<2	20	0.66	2-Methylnaphthalene	ND<1	10	0.33
Bis(2-chloroethoxy)methane	ND<1	10	0.33	2-Methylphenol (o-Cresol)	ND<1	10	0.33
Bis(2-chloroethyl) Ether	ND<1	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<1	10	0.33
Bis(2-chloroisopropyl)Ether	ND<1	10	0.33	Naphthalene	ND<1	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<1	10	0.33	2-Nitroaniline	ND<5	50	1.6
4-Bromophenyl Phenyl Ether	ND<1	10	0.33	3-Nitroaniline	ND<5	50	1.6
Butylbenzyl Phthalate	ND<1	10	0.33	4-Nitroaniline	ND<5	50	1.6
4-Chloroanaline	ND<2	20	0.66	2-Nitrophenol	ND<5	50	1.6
4-Chloro-3-methylpheno'	ND<1	10	0.33	4-Nitrophenol	ND<5	50	1.6
2-Chloronaphthalene	ND<1	10	0.33	Nitrobenzene	ND<1	10	0.33
2-Chlorophenol	ND<1	10	0.33	N-Nitrosodimethylamine	ND<1	10	0.33
4-Chlorophenyl Phenyl Ether	ND<1	10	0.33	N-Nitrosodiphenylamine	ND<1	10	0.33
Chrysene	ND<1	10	0.33	N-Nitrosodi-n-propylamine	ND<1	10	0.33
Dibenzo(a,h)anthracene	ND<1	10	0.33	Pentachlorophenol	ND<5	50	1.6
Dibenzofuran	ND<1	10	0.33	Phenanthrene	ND<1	10	0.33
Di-n-butyl Phthalate	ND<1	10	0.33	Phenol	ND<1	10	0.33
1,2-Dichlorobenzene	ND<1	10	0.33	Pyrene	ND<1	10	0.33
1,3-Dichlorobenzene	ND<1	10	0.33	1,2,4-Trichlorobenzene	ND<1	10	0.33
1,4-Dichlorobenzene	ND<1	10	0.33	2,4,5-Trichlorophenol	ND<1	10	0.33
3,3-Dichlorobenzidine	ND<2	20	0.66	2,4,6-Trichlorophenol	ND<1	10	0.33
2,4-Dichlorophenol	ND<1	10	0.33	Comments: j			
Diethyl Phthalate	ND<1	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND<1	10	0.33	2-Fluorophenol	86		
Dimethyl Phthalate	ND<1	10	0.33	Phenol-d5	115		
4,6-Dinitro-2-methylphenol	ND<5	50	1.6	Nitrobenzene-d5	113		
2,4-Dinitrophenol	ND<5	50	1.6	2-Fluorobiphenyl	115		
2,4-Dinitrotoluene	ND<1	10	0.33	2,4,6-Tribromophenol	83		
2,6-Dinitrotoluene	ND<1	10	0.33	p-Terphenyl-d14	104		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

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	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/22/2000

Semi-Volatile Organics By GC/MS

EPA method 625 and 3510 or 8270 and 3550

Lab ID	47661
Client ID	PES-6 2-3
Matrix	S

Compound	Concentration*	Reporting Limit W	Reporting Limit S	Compound	oncentration	Reporting Limit W	Reporting Limit S
Acenaphthene	ND<1	10	0.33	Di-n-octyl Phthalate	ND<1	10	0.33
Acenaphthylene	ND<1	10	0.33	1,2-Diphenylhydrazine	ND<1	10	0.33
Anthracene	ND<1	10	0.33	Fluoranthene	ND<1	10	0.33
Benzidine	ND<5	50	1.6	Fluorene	ND<1	10	0.33
Benzoic Acid	ND<5	50	1.6	Hexachlorobenzene	ND<1	10	0.33
Benzo(a)anthracene	ND<1	10	0.33	Hexachlorobutadiene	ND<1	10	0.33
Benzo(b)fluoranthene	ND<1	10	0.33	Hexachlorocyclopentadiene	ND<5	50	1.6
Benzo(k)fluoranthene	ND<1	10	0.33	Hexachloroethane	ND<1	10	0.33
Benzo(g,h,i)perylene	ND<1	10	0.33	Indeno(1,2,3-cd)pyrene	ND<1	10	0.33
Benzo(a)pyrene	ND<1	10	0.33	Isophorone	ND<1	10	0.33
Benzyl Alcohol	ND<2	20	0.66	2-Methylnaphthalene	ND<1	10	0.33
Bis(2-chloroethoxy)methane	ND<1	10	0.33	2-Methylphenol (o-Cresol)	ND<1	10	0.33
Bis(2-chloroethyl) Ether	ND<1	10	0.33	3 &/or 4-Methylphenol (m &/or p-Cresol)	ND<1	10	0.33
Bis(2-chloroisopropyl)Ether	ND<1	10	0.33	Naphthalene	ND<1	10	0.33
Bis(2-ethylhexyl) Phthalate	ND<1	10	0.33	2-Nitroaniline	ND<5	50	1.6
4-Bromophenyl Phenyl Ether	ND<1	10	0.33	3-Nitroaniline	ND<5	50	1.6
Butylbenzyl Phthalate	ND<1	10	0.33	4-Nitroaniline	ND<5	50	1.6
4-Chloroanaline	ND<2	20	0.66	2-Nitrophenol	ND<5	50	1.6
4-Chloro-3-methylpheno'	ND<1	10	0.33	4-Nitrophenol	ND<5	50	1.6
2-Chloronaphthalene	ND<1	10	0.33	Nitrobenzene	ND<1	10	0.33
2-Chlorophenol	ND<1	10	0.33	N-Nitrosodimethylamine	ND<1	10	0.33
4-Chlorophenyl Phenyl Ether	ND<1	10	0.33	N-Nitrosodiphenylamine	ND<1	10	0.33
Chrysene	ND<1	10	0.33	N-Nitrosodi-n-propylamine	ND<1	10	0.33
Dibenzo(a,h)anthracene	ND<1	10	0.33	Pentachlorophenol	ND<5	50	1.6
Dibenzofuran	ND<1	10	0.33	Phenanthrene	ND<1	10	0.33
Di-n-butyl Phthalate	ND<1	10	0.33	Phenol	ND<1	10	0.33
1,2-Dichlorobenzene	ND<1	10	0.33	Pyrene	ND<1	10	0.33
1,3-Dichlorobenzene	ND<1	10	0.33	1,2,4-Trichlorobenzene	ND<1	10	0.33
1,4-Dichlorobenzene	ND<1	10	0.33	2,4,5-Trichlorophenol	ND<1	10	0.33
3,3-Dichlorobenzidine	ND<2	20	0.66	2,4,6-Trichlorophenol	ND<1	10	0.33
2,4-Dichlorophenol	ND<1	10	0.33	Comments: j			
Diethyl Phthalate	ND<1	10	0.33	**Surrogate Recoveries (%)**			
2,4-Dimethylphenol	ND<1	10	0.33	2-Fluorophenol	89		
Dimethyl Phthalate	ND<1	10	0.33	Phenol-d5	98		
4,6-Dinitro-2-methylphenol	ND<5	50	1.6	Nitrobenzene-d5	109		
2,4-Dinitrophenol	ND<5	50	1.6	2-Fluorobiphenyl	107		
2,4-Dinitrotoluene	ND<1	10	0.33	2,4,6-Tribromophenol	78		
2,6-Dinitrotoluene	ND<1	10	0.33	p-Terphenyl-d14	100		

*water samples are reported in ug/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in ug/L

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

* surrogate diluted out of range

h) lighter than water immiscible sheen is present; i)liquid sample that contains greater than ~5 vol. % sediment; j) sample diluted due to high organic content

DHS Certification No. 1644

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
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PES Environmental, Inc. 1682 Novato Blvd., Ste. 100 Novato, CA 94947	Client Project ID: #241.042.01.0001; 1300 Powell	Date Sampled: 09/14/2000
		Date Received: 09/15/2000
	Client Contact: Mike Siembieda	Date Extracted: 09/15/2000
	Client P.O:	Date Analyzed: 09/15-09/18/2000

LUFT Metals*

EPA analytical methods 6010/200.7, 239.2[#]

Lab ID	Client ID	Matrix	Extraction°	Cadmium	Chromium	Lead	Nickel	Zinc	% Recovery Surrogate
47647	PES-1	S	TTLC	ND	21	5.9	11	20	93
47649	PES-1A	S	TTLC	0.72	17	120	16	190	84
47651	PES-2 3-4	S	TTLC	ND	22	44	21	79	88
47652	PES-2 5 1/2 -7	S	TTLC	ND	20	ND	14	18	81
47653	PES-3 3-4	S	TTLC	ND	25	110	24	180	82
47655	PES-3 5 1/2 -7	S	TTLC	ND	33	4.4	59	41	97
47656	PES-4 3-4	S	TTLC	ND	22	5.9	16	45	85
47658	PES-4 5 1/2 -7	S	TTLC	ND	29	4.7	40	28	92
47659	PES-5 3-4	S	TTLC	ND	18	26	28	47	81
47660	PES-5 6-7	S	TTLC	ND	22	3.9	16	21	87
47661	PES-6 2-3	S	TTLC	ND	25	33	28	83	84
47663	PES-6 6-7	S	TTLC	ND	22	ND	41	26	82
Reporting Limit unless otherwise stated; ND means not detected above the reporting limit		S	TTLC	0.5 mg/kg	0.5	3.0	2.0	1.0	
		W	TTLC	0.005 mg/L	0.02	0.005	0.05	0.05	
		---	STLC, TCLP	0.01 mg/L	0.05	0.2	0.05	0.05	

* water samples are reported in mg/L, soil and sludge samples in mg/kg, wipes in ug/wipe and all TCLP / STLC / SPLP extracts in mg/L

[#] Lead is analysed using EPA method 6010 (ICP)for soils, STLC & TCLP extracts and method 239.2 (AA Furnace) for water samples

° EPA extraction methods 1311(TCLP), 3010/3020(water,TTLC), 3040(organic matrices,TTLC), 3050(solids,TTLC); STLC - CA Title 22

@ DISTLC extractions are performed using STLC methodology except that deionized water is substituted for citric acid buffer as the extraction fluid. DISTLC results are not applicable to STLC regulatory limits.

[#] surrogate diluted out of range; N/A means surrogate not applicable to this analysis

& reporting limit raised due to matrix interference

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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QC REPORT

Date: 09/15/00-09/16/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 91500				Instrument: GC-3			
Surrogate1	0.000	103.0	99.0	100.00	103	99	4.0
Xylenes	0.000	297.0	298.0	300.00	99	99	0.3
Ethyl Benzene	0.000	101.0	101.0	100.00	101	101	0.0
Toluene	0.000	105.0	103.0	100.00	105	103	1.9
Benzene	0.000	109.0	107.0	100.00	109	107	1.9
MTBE	0.000	99.0	102.0	100.00	99	102	3.0
GAS	0.000	817.0	834.7	1000.00	82	83	2.1
SampleID: 91500				Instrument: GC-2 A			
Surrogate1	0.000	106.0	106.0	100.00	106	106	0.0
TPH (diesel)	0.000	315.0	318.0	300.00	105	106	0.9

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

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QC REPORT

Date: 09/15/00-09/16/00 Matrix: Soil

Extraction: N/A

Compound	Concentration: mg/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 38430				Instrument: GC-7			
Surrogate1	0.000	98.0	97.0	100.00	98	97	1.0
Xylenes	0.000	317.0	326.0	300.00	106	109	2.8
Ethyl Benzene	0.000	101.0	104.0	100.00	101	104	2.9
Toluene	0.000	103.0	105.0	100.00	103	105	1.9
Benzene	0.000	100.0	103.0	100.00	100	103	3.0
MTBE	0.000	110.0	112.0	100.00	110	112	1.8
GAS	0.000	1058.5	1069.2	1000.00	106	107	1.0
SampleID: 39269				Instrument: GC-2 A			
Surrogate1	0.000	99.0	99.0	100.00	99	99	0.0
TPH (diesel)	0.000	281.0	314.0	300.00	94	105	11.1
SampleID: 39269				Instrument: IR-1			
Surrogate1	0.000	86.0	87.1	100.00	86	87	1.3
TRPH	0.000	20.1	20.6	20.80	97	99	2.5

$$\%\,\text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

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QC REPORT

VOCs (EPA 8240/8260)

Date: 09/15/00-09/16/00 Matrix: Water

Extraction: N/A

Compound	Concentration: ug/L				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 92300					Instrument: GC-10		
Surrogate	0.000	102.0	99.0	100.00	102	99	3.0
tert-Amyl Methyl Ether	0.000	89.0	91.0	100.00	89	91	2.2
Methyl tert-Butyl Ether	0.000	89.0	90.0	100.00	89	90	1.1
Ethyl tert-Butyl Ether	0.000	89.0	90.0	100.00	89	90	1.1
Di-isopropyl Ether	0.000	86.0	89.0	100.00	86	89	3.4
Surrogate	0.000	103.0	102.0	100.00	103	102	1.0
Tolune	0.000	102.0	102.0	100.00	102	102	0.0
Benzene	0.000	96.0	98.0	100.00	96	98	2.1
Chlorobenzene	0.000	114.0	114.0	100.00	114	114	0.0
Trichloroethane	0.000	108.0	111.0	100.00	108	111	2.7
1,1-Dichloroethene	0.000	98.0	101.0	100.00	98	101	3.0

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

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QC REPORT

VOCs (EPA 8240/8260)

Date: 09/16/00-09/17/00 Matrix: Soil

Extraction: N/A

Compound	Concentration: ug/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 91600					Instrument: GC-4		
Surrogate	0.000	112.0	114.0	100.00	112	114	1.8
Tolune	0.000	94.0	95.0	100.00	94	95	1.1
Benzene	0.000	122.0	112.0	100.00	122	112	8.5
Chlorobenzene	0.000	103.0	99.0	100.00	103	99	4.0
Trichloroethane	0.000	102.0	110.0	100.00	102	110	7.5
1,1-Dichloroethene	0.000	122.0	109.0	100.00	122	109	11.3

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

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QC REPORT

SVOCs (EPA 8270/625/525)

Date: 09/22/00-09/23/00 Matrix: Soil

Extraction: N/A

Compound	Concentration: ug/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 33291				Instrument: GC-8			
Surrogate1	0.000	780.0	840.0	1000.00	78	84	7.4
Pyrene	0.000	600.0	660.0	1000.00	60	66	9.5
Pentachlorophenol	0.000	470.0	530.0	1000.00	47	53	12.0
2,4-Dinitrotoluene	0.000	600.0	640.0	1000.00	60	64	6.5
Acenaphtene	0.000	750.0	710.0	1000.00	75	71	5.5
4-Nitrophenol	0.000	560.0	630.0	1000.00	56	63	11.8
4-Chloro-3-metylphenol	0.000	730.0	760.0	1000.00	73	76	4.0
1,2,4-trichlorobenzene	0.000	620.0	670.0	1000.00	62	67	7.8
N-nitroso-di-n-propyl	0.000	770.0	720.0	1000.00	77	72	6.7
1,4-Dichlorobenzene	0.000	640.0	680.0	1000.00	64	68	6.1
2-Chlorophenol	0.000	670.0	690.0	1000.00	67	69	2.9
Phenol	0.000	610.0	600.0	1000.00	61	60	1.7

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

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QC REPORT

LUFT

Date: 09/15/00-09/16/00 Matrix: Soil

Extraction: TTLC

Compound	Concentration: mg/kg				%Recovery		RPD
	Sample	MS	MSD	Amount Spiked	MS	MSD	
SampleID: 91500					Instrument: ICP-1		
Surrogate1	0.000	85.8	86.0	100.00	86	86	0.2
Copper	0.000	4.0	3.9	5.00	80	78	2.3
Zinc	0.000	4.2	4.1	5.00	85	82	3.5
Lead	0.000	4.0	4.0	5.00	81	79	2.1
Nickel	0.000	4.1	4.1	5.00	81	81	0.4
Chromium	0.000	4.4	4.2	5.00	87	85	2.8
Cadmium	0.000	4.5	4.2	5.00	90	83	7.8

$$\%\ \text{Recovery} = \frac{(MS - Sample)}{AmountSpiked} \cdot 100$$

$$\text{RPD} = \frac{(MS - MSD)}{(MS + MSD)} \cdot 2 \cdot 100$$

RPD means Relative Percent Deviation

00004 zpese

PES ENVIRONMENTAL, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

1682 NOVATO BOULEVARD, SUITE 100
NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

JOB NUMBER: 241.042.01.001
NAME / LOCATION: 1300 Powell
PROJECT MANAGER: R Crespes
SAMPLERS: M. L. Siembieda
RECORDER: M. L. Siembieda

DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	SOURCE CODE	MATRIX: Water	Sediment	Soil	Oil	# CONTAINERS & PRESERV.: Unpres.	H_2SO_4	HNO_3	HCl	Filtered	DEPTH IN FEET	COL MTD CD	QA CODE
00	09	14	1506	PES-1-W		X				4			VOA				
			1516	PES-2-W		X				4			VOA				
			1520	PES-3-W		X				4			VOA				
~~00~~	~~09~~	15	1530	PES-4-W		X				4			VOA				
			1546	PES-5-W		X				4			VOA				
00	09	15	0930	PES-6-W		X				4			VOA				

ANALYSIS REQUESTED

EPA 601 / 8010	EPA 602 / 8020 (BTEX)	EPA 624 / 8240	EPA 625 / 8270	TPHg by 5030 / 8015 (mod)	TPHd by 3550 / 8015 (mod)	8260 + MTBE	
				X	X	X	47641 +5
				X	X	X	47642 +
				X	X	X	47643 +
				X	X	X	47644 +
				X	X	X	47645 +
				X	X	X	47646 5

NOTE

Note only 1 VOA sample collected From PES-6-W

- Request for Analysis will be forwarded via Fax or Phone

ICE/T° _____
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATION APPROPRIATE ✓
CONTAINERS ✓
VOAS | O&G | METALS | OTHER

CHAIN OF CUSTODY RECORD

		DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)		
DISPATCHED BY: (Signature) DATE TIME	RECEIVED FOR LAB BY: (Signature)	9/15	1:10
METHOD OF SHIPMENT:			

WHITE–Laboratory COPY YELLOW–Project Officer Copy PINK–Field or Office Copy

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Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

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NAME / LOCATION: 1300 Powell
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SAMPLERS: M. L. Siembieda
RECORDER: M. L. Siembieda

DATE YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	SOURCE CODE	MATRIX: Water	Sedim't	Soil	Oil	# CONTAINERS & PRESERV.: Unpres./ice	H_2SO_4	HNO_3	HCl	Filtered	ICE	DEPTH IN FEET	COL MTD CD	QA CODE
00	04	01		PES-1				X							X	5-7		
				PES-1				X							X	8-10		
				PES-1A				X							X	2-3		
				PES-1A				X							X	3-4		
				PES-2				X							X	3-4		
				PES-2				X							X	5½-7		
				PES-3				X							X	3-4		
				PES-3				X							X	4-5½		
				PES-3				X							X	5½-7		
				PES-4				X							X	3-4		
				PES-4				X							X	4-4½		
				PES-4				L							X	5½-7		

ANALYSIS REQUESTED

EPA 601 / 8010	EPA 602 / 8020 (BTEX)	EPA 624 / 8240	EPA 625 / 8270	TPHg by 5030 / 8015 (mod)	TPHd by 3550 / 8015 (mod)	5 LUFT - METALS	STLC + MTBE	
				X	X	X	X	47647
				X	X	X	X	47648
			X	X	X	X	X	47649
								47650
			X	X	X	X	X	47651
				X	X	X	X	47652
			X	X	X	X	X	47653
				X	X	X	X	47654
			X	X	X	X	X	47655
								47656
				X	X	X	X	47657
								47658

NOTE
Hold Samples - requests for analysis will be forwarded via Fax or phone

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE	
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE	
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE	TIME
RELINQUISHED BY: (Signature)		RECEIVED BY: (Signature)		DATE	TIME
DISPATCHED BY: (Signature)	DATE / TIME	RECEIVED FOR LAB BY: (Signature)		DATE	TIME
METHOD OF SHIPMENT:				4/5	1:10

	VOAS	O&G	METALS	OTHER
PRESERVATION				
APPROPRIATE				

WHITE–Laboratory COPY YELLOW–Project Office Copy PINK–Field or Office Copy

CE/NONE
GOOD CONDITION

PES ENVIRONMENTAL, Inc.
Engineering & Environmental Services

CHAIN OF CUSTODY RECORD

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NOVATO, CALIFORNIA 94947
(415) 899-1600 FAX (415) 899-1601

JOB NUMBER: 241.042.01.001
NAME / LOCATION: 1300 Powell
PROJECT MANAGER: R. Crepas
SAMPLERS: M. L. Siembieda
RECORDER: M. L. Siembieda

YR	MO	DY	TIME	SAMPLE NUMBER / DESIGNATION	SOURCE CODE	MATRIX (Water / Sedim't / Soil / Oil)	# CONTAINERS & PRESERV.	DEPTH IN FEET	COL MTD CD	QA CODE	EPA 601 / 8010	EPA 602 / 8020 (BTEX)	EPA 624 / 8240	EPA 625 / 8270	TPHg by 5030 / 8015 (mod)	TPHd by 3550 / 8015 (mod)	5 LUFT METALS	8240 + MTBE	
00	09	15		PES-6			Ice	3-4						X	X	X	X	X	47659
				PES-6			Ice	6-7							X	X	X	X	47660
				PES-6			Ice	2-3						X	X	X	X	X	47661
				PES-6			Ice	5-6											* 47662
				PES-6				6-7							X	X	X	X	47663

NOTE
- hold samples - request will be forwarded VIA phone or Fax

CHAIN OF CUSTODY RECORD

RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
[signature]			
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE	TIME

DISPATCHED BY: (Signature)	DATE	TIME	RECEIVED FOR LAB BY: (Signature)	DATE	TIME
			[signature]	9/15	[illegible]

METHOD OF SHIPMENT:

ICE/T° ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓

	VOAS	O&G	METALS	OTHER
PRESERVATION				

APPROPRIATE CONTAINERS ✓

WHITE–Laboratory COPY YELLOW–Project Office Copy PINK–Field or Office Copy